



Particle Engineering Laboratory R&D Paid Internship at Start-up Company - PARSEC Solutions LLC

Feb 2026 – April 2027

Purdue Research Park, West Lafayette, Indiana

Send resume to: Dr. Herman Snyder, hsnyder@parsecsolns.com

A) Primary function of position:

Perform assay testing of solid particle products for development of advanced pharmaceutical powder engineering systems conducted by industry funded start-up company environment.

B) Job Activities:

Primary responsibilities

- Execute and troubleshoot laboratory assays; including Karl Fischer, laser diagnostic droplet/particle size and suspension stability measurement techniques.
- Develop, maintain and execute laboratory Standard Operating Procedures (SOPs).
- Execute assays using Purdue Ilab system as needed.
- Develop formulation chemistry and feedstock preparation processes.
- Monitor and track formulation compound inventory.
- Perform data analysis.
- Write test plans and reports.
- Maintain stock of assay consumables.
- Coordinate campaign testing requirements as needed.

Secondary

- Assist with custom hardware testing and operation.

C) Requirements:

- Enrollment in the Purdue science, engineering or technology programs in the fields of chemistry/biochem, pharmacy/pharmaceutical, chemical, or agricultural/biological engineering.
- Ability to follow Standard Operating Procedures (SOPs) for experiments/assays/API handling.
 - Ability to be effectively trained by experienced interns.
- 'Hands-on' laboratory experience with the ability to operate in an R&D laboratory.
- Work effectively unsupervised and in a team environment, including industry partners.
- Experience working with analytical lab instrumentation preferred.
- Previous internship/Co-Op experience in pharmaceutical industry preferred.
- Experience with statistical data analysis programs a plus (Ex. JMP)
- Strong communication documentation and writing skills in English.
- Prefer Graduate/Senior/Junior level students.
- Ability to work over period of Feb 2026 through April 2027
- US citizen or appropriate VISA status for private company employment.

D) Time commitment:

- Part Time 10-20/wk during spring/fall semesters, 40 hrs/wk during summer period in 2026.
- Flexible works periods around class schedule.
- Majority of hours required onsite during normal working hours at PARSEC facility in the Purdue Research Park, West Lafayette Indiana.